

DEPARTMENT OF GEOGRAPHY
REQUIREMENTS FOR THE MAJOR – CLIMATE CHANGE & LANDSCAPE DYNAMICS EMPHASIS

Students must complete a minimum of five (5) courses of Geography required coursework (see list below) plus one (1) upper division human geography elective course, in addition to five (5) emphasis core requirements, and a minimum of three (3) emphasis elective requirement courses for a minimum total of fourteen (14) required Geography courses. All courses for the major must be taken for a letter grade and completed with a C+ or better.

RESIDENCY REQUIREMENT: Students must complete at least 18 credit hours in the Department of Geography at the University of Utah.

ALLIED CREDIT REQUIREMENT: 12 credit hours of allied coursework are also required. These courses will generally be in the student's interest/specialization area and can be done in any of the following departments: Atmospheric Sciences; Biology; Chemistry; City and Metropolitan Planning; Civil Engineering; Computer Science; Geology; Math; Parks, Recreation and Tourism; Philosophy; Physics; or any department** in the College of Social and Behavioral Science. **(Aerospace Studies, Anthropology, Economics, Environmental and Sustainability Studies, Ethnic Studies, Family and Consumer Studies, Gender Studies, Health Society and Policy, Military Science, Naval Science, Political Science, Psychology, Sociology).

PROGRAM OF STUDY

Code	Course Number and Title	Credit Hrs	Sem/Year Taken	Grade
	Required Courses: (<i>Geography Core Requirements</i>)			
SF	GEOG 1000 – Earth Environments and Global Change	3		
BF	GEOG 1400 – Human Geography	3		
QB&QI	GEOG 3020 – Geographical Analysis (<i>Spring</i>)	4		
	GEOG 3040 – Principles of Cartography (<i>Fall</i>)**	4		
QI	GEOG 3140 – Introduction to GIS (<i>Fall / +online Spring or Summer</i>)**	4		
	One of the following: (<i>Upper Division Human Geography Choice List</i>)			
	GEOG 3/5090 – Introduction to Medical Geography OR	3		
	GEOG 3350 – Resource Conservation & Environ. Mgt. OR	3		
	GEOG 3/5375 – Sustainable Transportation OR	3		
	GEOG 3420 – Political Geography OR	3		
IR	GEOG 3/5440 – Global Economic Geography OR	3		
	GEOG 3/5480 – Urban Geography OR	3		
DV	GEOG 3620 – Geography of North America	3		
	Emphasis Required Core: (<i>required core courses for emphasis</i>)			
	GEOG 3200 – Geomorphology: Mtns, Rivers, Deserts (<i>Fall</i>)	4		
	GEOG 5205 – Regional and Global Climates (<i>Fall</i>)	3		
SF	GEOG 5210 – Global Climate Change (<i>Spring</i>)	3		
CW	GEOG 5270 – Biogeography: Global Patterns of Life (<i>Spring</i>)	4		
	GEOG 3050 – Problem Solving in Physical Geography	4		
	Emphasis Electives: (<i>select three elective courses from list</i>)			
	CLIMATE			
	GEOG 5215 – Climate Change and Its Impacts (<i>Fall</i>)	3		
	GEOG 5275 – Vegetation and Climate Change	3		
	GEOG 5368 – Energy Choices for the 21 st Century	3		
	GEOG 5410 – Paleoclimatology	3		
	GEOG 5460 – Popular Literature on Climate Change	3		
	BIOGEOGRAPHY			
AS	GEOG 5230 – Pyrogeography	3		
	GEOG 5275 – Vegetation and Climate Change	3		
	GEOG 5280 – Quaternary Environments	3		
	GEOG 5420 – Pollen Analysis	3		
	GEOG 5712 – Paleoenvironmental Field Methods (<i>Summer</i>)	3		
	ENVST 5180 – Field Ecology	3		
	BIOL 2355 – Field Botany	2		
	GEOMORPHOLOGY			
	GEOG 5201 – Advanced Topics in Geomorphology: Arid Lands (<i>alt. Spring</i>)	3		
	GEOG 5202 – Advanced Topics in Geomorphology: Geoarch (<i>alt. Spring</i>)	3		
	GEOG 3000 – Geo-Excursions in Utah (<i>alt. Fall</i>)	4		
	HYDROLOGY/CRYOGEOGRAPHY			
AS	GEOG 5290 – Water in Utah	3		
	GEOG 5292 – Snow and Ice	3		
	GEOG 5250 – The Crystal Desert: Antarctica & Global Change	3		
	GEOG 5260 – Snow Dynamics & Avalanche Studies	4		

	GEOG 5360 – Ocean Environments (<i>Summer</i>)	3		
	GEO 3300 – The Water Planet	3		
	TOTAL COURSES (min. 14)			
	TOTAL RESIDENCY HRS. (18 cr. hrs. at U of U Geog. Dept.)			

** GEOG 3040 & 3140 are soon to be discontinued. If you have already taken GEOG 3140: Intro to GIS or plan on taking GEOG 3140 in Summer 2017, you **MUST** take GEOG 3040: Principles of Cartography this Fall 2017 semester and vice-versa! Otherwise, you must take the new consolidated GIS & Cartography course effective in 2018!

ALLIED COURSES

Code	Course Number and Title	Credit Hrs	Sem/Year Taken	Grade
	TOTAL CREDIT HOURS (min. 12 credit hours)			

Students who have questions should book an appointment with the undergraduate advisor at geog.utah.edu.